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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/714,084	11/14/2003	Hideya Kawahara	SUN04-0550-EKL	9527
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SUN MICROSYSTEMS INC.			LESPERANCE, JEAN E	
•	C/O PARK, VAUGHAN & FLEMING LLP 2820 FIFTH STREET DAVIS, CA 95618-7759		ART UNIT	PAPER NUMBER
DAVIS, CA			2629	

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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application No.	Applicant(s)		
		10/714,084	KAWAHARA ET AL.		
		Examiner	Art Unit		
		Jean E. Lesperance	2629		
The MA Period for Reply	ALLING DATE of this communication app	pears on the cover sheet with the c	orrespondence address		
A SHORTENE WHICHEVER - Extensions of tim after SIX (6) MOM - If NO period for no - Failure to reply w Any reply receive	ED STATUTORY PERIOD FOR REPLY IS LONGER, FROM THE MAILING Down and the available under the provisions of 37 CFR 1.1 ITHS from the mailing date of this communication. Eaply is specified above, the maximum statutory period within the set or extended period for reply will, by statute down the Office later than three months after the mailing and adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timwill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	I. lely filed the mailing date of this communication. O (35 U.S.C. § 133).		
Status					
2a) ☐ This act 3) ☐ Since th	sive to communication(s) filed on 20 Ju ion is FINAL . 2b) \square This is application is in condition for allowal accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Disposition of Cl	aims				
4a) Of th 5) ☐ Claim(s) 6) ☐ Claim(s) 7) ☒ Claim(s) 8) ☐ Claim(s) Application Pape 9) ☐ The spectors 10) ☒ The draw Applicant Replacent	cification is objected to by the Examine ving(s) filed on 14 November 2003 is/a may not request that any objection to the nent drawing sheet(s) including the correct	wn from consideration. Ited. r election requirement. r. re: a) accepted or b) objected or by	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
11)L) The oath	or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.		
Priority under 35 U.S.C. § 119 12) △ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) △ All b) ☐ Some * c) ☐ None of: 1. △ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
	person's Patent Drawing Review (PTO-948) losure Statement(s) (PTO-1449 or PTO/SB/08)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:			

DETAILED ACTION

- 1. The application filed July 20, 2006 is presented for examination and claims 1-33 are pending.
- 2. The previous Office action rejection is withdrawn and the indicated allowability of claims 9, 11, 20, 22, 31, and 33 is withdrawn in view of the new interpretation of the prior art.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 4, 9-13, 15, 20-24, 26, and 31-33 are rejected under 35

U.S.C. 102(b) as being unpatentable over US Patent # 5,774,125 by Suzuoki et al.

Regarding claim 1, Suzuoki et al. teach a method for displaying multiple twodimensional (2D) Fig.7 (A, B, and C) windows with related content within a threedimensional (3D) display model Fig.7 (AD1), comprising:

receiving a command to display a first window within the 3D display model (command from CPU Fig.2 (101) to display one of the 3D object in display AD1;

displaying content of the first window on a first surface of a 3D object (Fig.7 (OB22) where the first window is displaying (B));

receiving a command to display a second window within the 3D display model, wherein content of the second window is related to content of the first window (command from CPU Fig.2 (101) to display one of the three dimensional object (OB22); and

displaying content of the second window on a second surface of the 3D object (Fig.7 (OB22) where the first window is displaying (A)) where the 3D object displays the first window, second window, and third window (OB22) (ABC).

Regarding claim 2, Suzuoki et al. teach the second surface of the 3D object is located on the opposite side of the 3D object from the first surface, and wherein only one of the first surface of the 3D object and the second surface of the 3D object is visible at any given time (as seen in figure 7, in a 2D display AT4, the three-dimensional object ABC is displaying the first window where the second window B' is inherently opposite to the first window and where only one window is visible at a given time and it is the first window B.

Regarding claim 4, Suzuoki et al. teach receiving a command to display a third window within the 3D display model (command from CPU Fig.2 (101) to display one of the 3D object in display AD1; and displaying content of the third window on a surface of a second 3D object, wherein the second 3D object is located in close proximity to the 3D object in the 3D display model (Fig.7 (OB22) where the first window is displaying

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(A)) where the 3D object displays the first window, second window, and third window (OB22) (ABC) and they are in close proximity to each other.

Regarding claim 9, 20, and 31, Suzuoki et al. teach receiving a notification that the first window and the second window contain related content (by displaying the content of the first window (AD1) and second window (OB22) is interpreted as receiving notification that the first window and the second window contain related content; and creating an association between the first window and the second window in a lookup table (the content of the first window (AD1) and second window (OB22) are associated with each other because they are within each other and they are stored in the drawing area of the image memory).

Regarding claim 10, Suzuoki et al. teach the 3D object is stacked on top of the second 3D object so that the second 3D object is obscured by the 3D object from the viewpoint of a user (as seen in Figure 7 (OB22) where the first 3D object is placed before a second 3D object and where the second object is almost hidden from the first object from the view point of the user.

Regarding claims 11, 22, and 33, Suzuoki et al. teach displaying the content of the first window (AD1) and second window (OB22) where the user can see all the objects simultaneously.

Regarding claim 12, Suzuoki et al. teach a computer-readable storage medium storing instructions that when executed by a computer cause the computer to perform a method for displaying multiple two-dimensional (2D) Fig.7 (A, B, and C) windows with

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related content within a three-dimensional (3D) Fig.7 (AD1) display model, the method comprising:

receiving a command to display a first window within the 3D display model (command from CPU Fig.2 (101) to display one of the three dimensional object (OB22); displaying content of the first window on a first surface of a 3D object (Fig.7 (OB22) where the first window is displaying (B));

receiving a command to display a second window within the 3D display model, wherein content of the second window is related to content of the first window (command from CPU Fig.2 (101) to display one of the three dimensional object (OB22); and

displaying content of the second window on a second surface of the 3D object (Fig.7 (OB22) where the first window is displaying (**A**)) where the 3D object displays the first window, second window, and third window (OB22) (ABC).

Regarding claim 13, Suzuoki et al. teach the second surface of the 3D object is located on the opposite side of the 3D object from the first surface, and wherein only one of the first surface of the 3D object and the second surface of the 3D object is visible at any given time (as seen in figure 7, in a 2D display AT4, the three-dimensional object ABC is displaying the first window where the second window B' is inherently opposite to the first window and where only one window is visible at a given time and it is the first window B.

Regarding claim 15, Suzuoki et al. teach receiving a command to display a third window within the 3D display model (command from CPU Fig.2 (101) to display one of

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the 3D object in display AD1; and displaying content of the third window on a surface of a second 3D object, wherein the second 3D object is located in close proximity to the 3D object in the 3D display model (Fig.7 (OB22) where the first window is displaying (A)) where the 3D object displays the first window, second window, and third window (OB22) (ABC) and they are in close proximity to each other.

Regarding claim 21, it is rejected on the same rational as claim 10.

Regarding claim 23, Suzuoki et al. teach an apparatus for displaying multiple two-dimensional (2D) Fig.7 (A, B, and C) windows with related content within a three-dimensional (3D) display model Fig.7 (AD1), comprising:

a receiving mechanism configured to receive a command to display a first window within the 3D display model (command from CPU Fig.2 (101) to display one of the three dimensional object (OB22);

a display mechanism configured to display content of the first window on a first surface of a 3D object (Fig.7 (OB22) where the first window is displaying (B));

wherein the receiving mechanism is further configured to receive a command to display a second window within the 3D display model, wherein content of the second window is related to content of the first window (command from CPU Fig.2 (101) to display one of the three dimensional object (OB22); and

wherein the display mechanism is further configured to display content of the second window on a second surface of the 3D object (Fig.7 (OB22) where the first window is displaying (A)) where the 3D object displays the first window, second window, and third window (OB22) (ABC).

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Regarding claim 24, Suzuoki et al. teach the second surface of the 3D object is located on the opposite side of the 3D object from the first surface, and wherein only one of the first surface of the 3D object and the second surface of the 3D object is visible at any given time (as seen in figure 7, in a 2D display AT4, the three-dimensional object ABC is displaying the first window where the second window B' is inherently opposite to the first window and where only one window is visible at a given time and it is the first window B.

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Regarding claim 26, Suzuoki et al. teach the receiving mechanism is further configured to receive a command to display a third window within the 3D display model (command from CPU Fig.2 (101) to display one of the 3D object in display AD1, and wherein the display mechanism is further configured to display content of the third window on a surface of a second 3D object, wherein the second 3D object is located in close proximity to the 3D object in the 3D display model (Fig.7 (OB22) where the first window is displaying (A)) where the 3D object displays the first window, second window, and third window (OB22) (ABC) and they are in close proximity to each other.

Regarding claim 32, it is rejected on the same rational as claim 10.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

⁽a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3, 5, 6, 14, 16, 17, 25, 27, and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent # 5,774,125 by Suzuoki et al. in view of US Patent # 5,764,237 ("Kaneko").

Regarding claim 3, Suzuoki fails to teach rotating the 3D object so that the second surface is visible.

However, Kaneko teaches the CPU 3 automatically updates the fill coordinates according to graphic operation by the user such as <u>rotation</u>, displacement, expansion and contraction of the <u>three-dimensional object</u>. Importantly, the CPU 3 gives the initial values of the fill coordinates and the texture coordinates to the texture mapping unit 1 (column 5, lines 55-60) and (a three-dimensional object is two-dimensionally <u>displayed</u> as a group of numerous polygons (column 1, lines 24and 25)) where as seen in figures 7a, 7b, and 7c that the cubic body is rotationally displaced and where in two opposite sides, one is hidden and the other is visible.

Thus, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to utilize the cubic object as taught by Kaneko et al. in the texture mapping disclosed by Suzuoki because this would provide a texture mapping apparatus which can allocate texture data in a diverse and flexible manner while saving the texture memory capacity (column 2, lines 27-29).

Regarding claim 5, Suzuoki et al. teach receiving a modal dialog related to the content of the first window, wherein the modal dialog must be responded to before any other action may be taken on an application (command from CPU Fig.2 (101) to display one of the 3D object in display AD1 where the DMA controller 8 of Figure 1 representing

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a computer which uses an operating system to boot corresponding to the modal dialog. The prior art teaches all the claimed limitations with the exception of providing rotating the 3D object so that the second surface is visible and the first surface is hidden; and displaying the modal dialog on the second surface.

However, Kaneko teaches the CPU 3 automatically updates the fill coordinates according to graphic operation by the user such as <u>rotation</u>, displacement, expansion and contraction of the <u>three-dimensional object</u>. Importantly, the CPU 3 gives the initial values of the fill coordinates and the texture coordinates to the texture mapping unit 1 (column 5, lines 55-60) and (a three-dimensional object is two-dimensionally <u>displayed</u> as a group of numerous polygons (column 1, lines 24and 25)) where as seen in figures 7a, 7b, and 7c that the cubic body is rotationally displaced and where in two opposite sides, one is hidden and the other is visible.

Thus, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to utilize the cubic object as taught by Kaneko et al. in the texture mapping disclosed by Suzuoki because this would provide a texture mapping apparatus which can allocate texture data in a diverse and flexible manner while saving the texture memory capacity (column 2, lines 27-29).

Regarding claim 14, it is rejected on the same rational as claim 3.

Regarding claim 16, it is rejected on the same rational as claim 5.

Regarding claim 25, it is rejected on the same rational as claim 3.

Regarding claim 27, it is rejected on the same rational as claim 5.

Regarding claim 6, it is rejected on the same rational as claim 5.

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Regarding claim 17, it is rejected on the same rational as claim 5.

Regarding claim 28, it is rejected on the same rational as claim 5.

5. Claims 7, 18, and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent # 5,774,125 by Suzuoki et al. in view of US Patent # 7,039,801 ("Narin").

Regarding claim 7, Suzuoki et al. fail to teach the first window and the second window are associated with different applications.

However, Narin teaches rendering an output of said first software object in a <u>first</u> window having a first region on said display; and rendering an output of said second software object in a <u>second window different from said first window</u>, said second window having a second region on said display (column 11, lines 43-47).

Thus, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to utilize the software as taught Narin in the texture mapping disclosed by Suzuoki et al. because this would a technique for integrating untrusted or "open" features into a closed process (column 1, lines 64 and 65).

Regarding claim 18, it is rejected on the same rational as claim 7.

Regarding claim 29, it is rejected on the same rational as claim 7.

Allowable Subject Matter

6. Claims 8, 19, and 30 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is an examiner's statement of reasons for allowance: the claimed invention is directed to a method for displaying multiple two-dimensional windows with related content within a three-dimensional display model.

Dependent claims 8, 19, and 30 identify a uniquely distinct feature "looking up an identifier for the second window in a lookup table that contains entries specifying relationships between windows; determining if the second window is related to the first window; if so, displaying content of the second window on the second surface of the 3D object; and if not, displaying content of the second window on a surface of a distant 3D object, which is not located in close proximity to the 3D object in the 3D display model".

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean Lesperance whose telephone number is (571) 272-7692. The examiner can normally be reached on from Monday to Friday between 10:OOAM and 6:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe, can be reached on (571) 272-7691.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

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or faxed to:

(571) 273-8300 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park 11, 2121 Crystal drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Jean Lesperance

Date 9/19/2006

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RICHARD HJERPE SUPERVISORY PATENT EXAMINER TECHNO SY CENTER 2600